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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/781,223

02/17/2004

Lei Duan

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8791 7590 10/10/2007
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EXAMINER

SPOONER, LAMONT M

ART UNIT

PAPER NUMBER

2626

MAIL DATE

DELIVERY MODE

10/10/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/781,223

Applicant(s)

DUAN ET AL.

Examiner

Lamont M. Spooner

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 9-13,22-26,35,39,41,47 and 48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 9-13,22-26,35,39,41,47 and 48 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Introduction

1. This Office Action is in response to applicant's preliminary amendment filed, 2/17/04. Claims 9-13, 22-26, 35, 39, 41, 47 and 48 are currently pending and have been examined. The Examiner acknowledges and has considered the IDS filed 2/17/04.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 9-13, 22-26, 35, 39, 41, 47 and 48 are rejected under 35 U.S.C. 102(b) as being anticipated by Chang et al. (Chang, US 5,268,840).

As per **claims 9, 22, 35, 41, and 47** Chang teaches a method for providing segmentation of an input stream in a character-based language comprising:

creating a plurality of segments from at least two tokens in the input stream based upon a lexical information and lexical functions for the

character-based language (Fig 1 items 400-425, C.12 lines 1-25-his knowledge information and code, as lexical information and functions, Fig. 9); and

generating a connection graph using the plurality of segments (ibid-his connection graph).

As per **claims 10, 23, and 48** Chang teaches the method of claim 9, and further teaches compiling lexical grammar rules to generate the lexical functions, the lexical grammar programming language (ibid-his connection action codes).

As per **claims 11 and 24**, Chang teaches the method of claim 10 wherein the lexical grammar rules define connectivity relation of tokens (ibid-his connectivity, C.9 lines 40-48-his validity of connection, Fig. 9).

As per **claims 12 and 25**, Chang teaches the method of claim 9 further comprising assigning at least one part of speech tag to at least one segment using a lexical dictionary (ibid, Fig. 9, C.7 line 65, C.8 line 58-his part of speech for the segments).

As per **claims 13, 26, and 39**, Chang teaches the method of claim 12 further comprising:

defining a plurality of paths in the connection graph based upon part of speech tags and the segments (ibid-his plurality of paths based on the connection codes and part of speech, see claim 1);

assigning a cost to each of the plurality of paths (ibid, C.10 lines 3-67-his test/code and failing and successful paths); and

determining at least one best path based upon a corresponding cost to generate an output graph (C.12 lines 13-25).


Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamont M. Spooner whose telephone number is 571/272-7613. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571/272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

lms
9/30/07



PATRICK N. EDOUARD
SUPERVISORY PATENT EXAMINER